CDS 7000C PAL System
Purge and Trap Plugin

The Industries First Purge and Trap Concentrator for PAL Autosamplers
If gas chromatography plays a role in your daily operations, you already know CDS Analytical as the world’s leading manufacturer of pyrolysis instrumentation. But we also manufacture world-class Purge & Trap GC front-end sampling instruments.

The legendary CDS-7000E was acknowledged as a workhorse in the industry for years as the most cost effective Purge and Trap concentrator. Now the 7000C delivers the same combination of qualities that made the 7000 such a reliable instrument, but with plug and play connectivity to the world’s leading autosampler platform, the CTC Combi PAL. The 7000C features our industry standard foam sensor, a newly redesigned wet trap for moisture control, and our original exchangeable sample pneumatics system, all providing the highest available performance and unrivalled chromatographic resolution.

**Introduction**

**Product Specifications**

- Programmable times: 0–999.9 minutes
- Trap: 0.3 cm OD x 28.5 cm Length
- Transfer Line: 1.5 m stainless steel clad fused silica, in flexible heated jacket
- Desorb pre-heat option
- Maximum Operating Temperatures
  - Valve oven 350°C
  - Transfer Line 350°C
  - Wet Trap 300°C
  - Adsorbent Trap 300°C
- Vocarb or Tenax Adsorbent Trap
- Weight: 9.5 kg/21 lbs
- 18 cm W x 50 cm H x 33 cm D (7” X 19.5” X 13”)

**Options:**

- Hot water rinse module
- Heated sparge vessel module
- Internal reference standard addition module
- Electronic mass flow controller
- Pressure transducer for leak check

**Figure 1:** VOC’s at 20 ppb concentration purged from water.

**Figure 2:** Multiple runs of the six gases at 500 ppt.

**Figure 3:** Linearity for Vinyl Chloride from 500 ppt to 50 ppb

1. Dichlorodifluoromethane
2. Chloromethane
3. Vinyl chloride
4. Bromomethane
5. Chloroethane
6. Trichlorofluoromethane
7. 1,1-Dichloroethylene
8. Methylene chloride
9. trans-1,2-Dichloroethene
10. 1,1-Dichloroethane
11. 2,2-Dichloropropane
12. cis-1,2-Dichloroethene
13. Bromochloromethane
14. Chloroform
15. 1,1,1-Trichloroethane
16. Carbon tetrachloride
17. 1,2-Dichloroethene
18. Benzene
19. 1,2-Dichloroethane
20. Fluorobenzene (I.S.)
21. Trichloroethylene
22. 1,2-Dichloropropane
23. Dibromomethane
24. Bromodichloromethane
25. cis-1,3-Dichloropropene
26. Toluene
27. trans-1,3-Dichloropropene
28. 1,2-Dichloroethene
29. Tetrachloroethylene
30. 1,3-Dichloropropene
31. Dibromochloromethane
32. 1,2-Dibromoethane
33. Chlorobenzene
34. 1,1,1,2-Tetrachloroethane
35. Ethylbenzene
36. m-Xylene
37. p-Xylene
38. o-Xylene
39. Styrene
40. Tribromomethane
41. Isopropyl benzene
42. Bromobenzene
43. 1,1,2,2-Tetrachloroethane
44. 1,2,3-Trichloropropene
45. n-Propyl benzene
46. 2-Chlorotoluene
47. 1,3,5-Trimethyl benzene
48. 4-Chlorotoluene
49. tert-Butyl benzene
50. 1,2,4-Trimethyl benzene
51. sec-Butyl benzene
52. 1,3-Dichlorobenzene
53. p-Isopropyl toluene
54. 1,4-Dichlorobenzene
55. 1,3,5-Dichlorobenzene, d-4
56. 1,2-Dichlorobenzene
57. 1,2-Dibromo-3-chloropropane
58. 1,3,5-Trichlorobenzene
59. Hexachlorobutadiene
60. Naphthalene
61. 1,2,3-Trichlorobenzene
Product Features

Optional Internal Reference Standard module (ISTD) accurately delivers 1µL of internal reference standard from one of the two internal reference standard reservoirs.

User-friendly software (P&T Plugin) integrates with PAL software seamlessly.

1. Eight (8) Port Pneumatic Valve
2. Temperature controlled pneumatics oven
3. Peek OR Siliconert sample flow path
4. Easy Trap Removal from top
5. Heated Transfer Line
6. Foam sensor
7. Wet & Sorbant trap compartment
8. Quick release sparge door
Make CDS Your Universal Inlet Partner

Thermal Desorption  Pyrolysis  Purge and Trap